AKAMAI CHECKLIST

Zero Trust Platform Capabilities

An effective Zero Trust platform consolidates once-distinct point solutions — including Zero Trust Network Access (ZTNA), microsegmentation, DNS firewall, and threat hunting — into an integrated, single-console platform. Quick and effective deployment of Zero Trust means stopping ransomware, meeting demanding compliance mandates, and securing your distributed workforce as well as your hybrid cloud infrastructure. This checklist can be used to assess vendor capabilities, or as a list of requirements to implement Zero Trust with a single platform.

Category 1: Platform requirements

Your Zero Trust platform solution should be flexible, scalable, and easy to administer.

Scalability to match traffic demands and provide continuous protection without loss of performance	 Flexible deployment models supporting diverse hybrid architectures — cloud, virtual, on-premises
Ability to integrate with existing security tools that customers currently have in place, such as SIEM, SOAR, EDR, CMDB, and more	Ability to accommodate both agent-based and agentless deployments (IoT/OT, PaaS)
Coverage for heterogeneous data centers — hybrid and multicloud environments, legacy systems, end-user devices, Kubernetes clusters, virtual machines, IoT/OT environments, and more	Support for Windows, Linux, and macOS, as well as legacy operating systems
	Audit log capabilities to ensure the recording of all actions



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Category 2: Visibility requirements

Deep visibility is critical to understanding the environment, identifying suspicious connections, and responding quickly and precisely to threats.

Map-like visualization of all applications and workload flows as well as user-to-application access across any environment – containers, serverless, IaaS or PaaS – all from a single	Ability to collect data from various third-party sources such as CMDB, EDR, and cloud APIs for contextual labels and rules
 Console Historic and real-time flows for investigation and forensics 	Labeling assistance, preferably leveraging Al for speed and accuracy
Interoperability with third-party firewalls and hardware such as switch devices	

Category 3: Policy requirements

Both east-west (microsegmentation) and north-south (ZTNA) policies are applied from one place, based on attributes that can be used in a range of use cases such as ransomware protection, remote workforce protection, zero-day response, and compliance.

Policy that is software-defined and distributed throughout the enterprise without requiring physical internal firewalls that create chokepoints	F	Policies enforced with or without an agent
		Policy controls based on comprehensive flow mapping
Rules created based on various workload attributes rather than only IPs and ports		Preconfigured policies for global risk reduction based on industry best practices
Granular application-centric policies enforced so workloads are protected down to the port, process, and even service level		Policy for hybrid cloud across virtualized, IaaS, and PaaS environments
A policy recommendation engine with out- of-the-box and custom templates, preferably leveraging AI, that accelerates policy creation		Policies tied to the workload with the ability to follow it if it moves, migrates, or changes
		Access policy for users in the office and working remotely



Category 4: Zero Trust component requirements

Of the various functions integrated into a unified Zero Trust platform, Zero Trust Network Access and microsegmentation stand out as the foundational pillars. These technologies enable organizations to deploy Zero Trust controls without negatively impacting the workforce and business continuity.

	d access and network policy engine bined east-west and north-south control)	Signal sharing across the platform tools to ensure an attacker is stopped even if they manage to punch through the access
	g identity enforcement with FIDO2 multi- authentication (MFA)	mechanism
		Adoption of dynamic deception systems
from a	to protect IT environments and users a broad range of threats by monitoring tering DNS traffic	capable of tracking and quarantining attackers
		Ability to query endpoints or servers for the
	ng detection of evasive threats and oring of security posture	presence of vulnerabilities to allow quick ransomware detection mitigation

Category 5: Integrated AI requirements

Many aspects of effectively implementing Zero Trust can be streamlined with the use of AI. This expedites and simplifies policy creation, compliance, incident response, and vulnerability assessment.

Communication with network logs using	Translation of natural language into syntax to
natural language to help shorten the time to	quickly look for vulnerabilities in your network
incident response, compliance scoping efforts,	without having to research IOCs or write
and more	custom queries
Streamlining of the entire policy process with	Al threat hunting mechanisms for advanced

detection methods to find anomalies and

malicious activity that traditional tools miss

Please visit Akamai Zero Trust Security to learn more.

AI that suggests labels and policies based on

your unique traffic patterns